CARBON DIOXIDE AND METHANE, AND MANY METHANE TRAP THE HEAT REFLECTED FROM THE EARTH, THEREBY CONTRIBUTING TO GLOBAL WARMING AND

CONTRIBUTES TO GLOBAL WARMING, BUT ALSO WASTES A POTENTIAL ENERGY SOURCE. AT MANY AND HEAT BUILDINGS. AFTER ALL, METHANE IS THE MAIN

LANDFILL GAS: IF WE DON'T USE IT, WE LOSE IT



Canadä

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Environmement

WASTE

MANRGEMENT INFORMATION SERIES

wondered

EACH WEEK?

While it may seem to disappear, the fact is that most of the waste we produce ends up at a landfill site.

could have a detrimental

The other principal component of landfill highly explosive gas. Methane is 25 times more potent than CO, as a greenhouse gas.

ways to use landfill gas are vital to meeting

long-term commitment. Landfills generate up a number of environmental, health and

phide can escape from cracks in the surface of

What's in

- ▶ Carbon dioxide
- ► Methane
- ▶ Water vapour
- ▶ Other chemical compounds

Using a collection system to capture landfill gas is one way of solving some of these problems. Landfill gas can be controlled in a variety of ways. Venting - or releasing the the risk of fires, explosions and asphyxiation. The burning or flaring of landfill gas reduces

IT MAKES

good sense!

Methane produced by the decomposition of our garbage is an available, reliable and relalandfill sites in Canada. Using methane gas to generate electricity, fuel industries, or create heat reduces its impact on global warming.

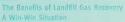
Over 20 landfills in Canada have methane from the large Brock West site near Toronto, to the small Tretheway landfill in British

Approximately 80 per cent of recovered ting electricity - an option available to sites electricity by 1996; enough to supply nearly 50,000 households. Landfill gas can also be

So, why aren't all landfills recovering and utilizing landfill gas? For remote landfills, lack

cing or obtaining the necessary approvals. play an important role: make it difficult for new

increased awareness of the environmental and economic benefits of landfill gas recovery advance planning. For example, designing



- · controls the release of greenhouse gases that contribute to global warming
- reduces odours, damage to vegetation and the risks from explosions, fires and asphyxiation
- converts a harmful emission into a reliable energy source
- creates a potential source of revenue/profit



the burning of



